

Biology of the Neonate

Vol. 41, 1982

Fetal and Neonatal Research

Founded 1959 as 'Biologia Neonatorum' by A. Minkowski
(formerly 'Etudes Néo-Natales')

Editor-in-Chief

A. Minkowski, Paris

Editorial Board

F.C. Battaglia, Denver, Colo.
G. Duc, Zurich
J. Girard, Paris
G. Mestyan, Pecs
N. Raiha, Helsinki
J.P. Relier, Paris
L. Stern, Providence, R.I.
R. Zetterstrom, Stockholm

Editorial Advisers

P. Hahn, Vancouver, B.C.
A. Jost, Paris
P. Kalberg, Göteborg
E. Kerpel-Fronius, Budapest
N. Kretchmer, Bethesda, Md.
J. Lind, Stockholm
T. Oppe, London
A.H. Parmelee, Jr.,
Los Angeles, Calif.
H.J. Shelley, Oxford
C.A. Smith, Boston, Mass.
J.P. Tizard, Oxford



KARGER

No. 1-2	The Effect of 3,5,3'-Triiodothyronine on Phosphoenolpyruvate Carboxykinase, Fatty Acid Synthetase and Malic Enzyme Activity of Liver and Brown Fat of Fetal and Neonatal Rats	
	Hahn, P.; Hassanal, S.	1
	The Comparative Hemodynamic Effects of Propranolol in Chronically Instrumented Puppies and Adult Dogs	
	Driscoll, D.J.; Fukushige, J.; Lewis, R.M.; Hartley, C.J.; Entman, M.J.	8
	Intrauterine Growth Retardation and Development of Endocrine Pancreas in the Experimental Rat	
	De Prins, F.A.; Van Assche, F.A.	16
	Levels of Serum Protease Inhibitors during Fetal and Postnatal Development of the Pig	
	Weström, B.R.; Karlsson, B.W.; Svendsen, J.	22
	Pituitary and Adrenal Glands in Neonatal Rats Studied by Metopirone (Su4885)	
	Milković, K.; Peruzović, M.; Paunović, J.	32
	Kernicterus at Low Levels of Serum Bilirubin: The Impact of Bilirubin Albumin-Binding Capacity. A 10-Year Retrospective Survey	
	Pledger, D.R.; Scott, J.M.; Belfield, A.	38
	The Effect of Prewaning Undernutrition upon the Sexual Development of Male Mice	
	Jean-Faucher, C.; Berger, M.; Turckheim, M. de; Veyssière, G.; Jean, C.	45
	9-Methyl Pteroylglutamic Acid, a Synthetic Analogue of Folic Acid: Its Effects on Hexosamine Levels in Fetal Rat Limbs and Other Fetal Tissues	
	Schmidt, R.R.; Abbott, P.K.; Cotler, J.M.	52
	Plasma Amino Acid Patterns, One and Two Hours after Continuous Naso-Gastric Alimentation of Low Birth Weight Infants Fed Two Types of Milk during the First Month of Life	
	Pardou, A.; Vuye, A.; Vis, H.L.	57
	Postnatal Surges in Plasma Gut Hormones in Term and Preterm Infants	
	Lucas, A.; Bloom, S.R.; Aynsley-Green, A.	63
	Distribution of Nutrients between Fetal Brain and Body during Rat Development	
	Zamenhof, S.; Marthens, E. van	68
	Expiratory Patterns during Sleep in Normal Full-Term and Premature Neonates	
	Radvanyi-Bouvet, M.F.; Monset-Couchard, M.; Morel-Kahn, F.; Vicente, G.; Dreyfus-Brisac, C.	74
	Proteolytic Activity as a Regulator of the Transmission of Orally Fed Proteins from the Gut to the Blood Serum in the Suckling Rat	
	Telemo, E.; Weström, B.R.; Karlsson, B.W.	85
	Fetal and Early Postnatal Development of Adenylate Cyclase and Cyclic AMP Phosphodiesterase Activities in Rat Brain	
	Salinas, M.; Galán, A.; Herrera, E.	94

No. 3-4	Parathyrin and Calcium Homeostasis in the Fetus	
	Wadsworth, J.C.; Kronfeld, D.S.; Ramberg, C.F., Jr.	101
	Development of Bile Acid Biogenesis in the Rat: Effect of Neonatal Thyroidectomy, Adrenalectomy, and Streptozotocin-Induced Diabetes	
	Hassan, A.S.; Yunker, R.L.; Ravi Subbiah, M.T.	110
	Plasma Catecholamine Responses to Hypoxemia in Fetal Lambs	
	Lewis, A.B.; Evans, W.N.; Sischo, W.	115
	Ontogeny of Cyclic Nucleotides in Embryonic Chick Gonads	
	Teng, C.	123
	Supply and Release of Storage Neutrophils. A Developmental Study	
	Erdman, S.H.; Christensen, R.D.; Bradley, P.P.; Rothstein, G.	132
	Influence of a Low Protein Diet on Salicylate-Induced Damage in Mice	
	Eriksson, M.; Larsson, K.S.	138
	Plasma Corticosterone during Perinatal Period in Postmature Rats	
	Roudier, M.; Portha, B.; Picon, L.	143
	Uptake and Retention of Sex Steroids by the Neonatal Rat Adrenal Gland	
	Simmons, J.E.; Bronsky, P.T.; Woodard, E.J.	148
	Blood and Tissue Levels of Lipoperoxides in Rats during Development	
	Yoshioka, T.; Mori, M.; Takehara, Y.; Shimatani, M.	155
	Erythrocyte Enzymes in Sheep: Comparison of Activity in Fetal, Newborn, Maternal and Nonpregnant Ewe Erythrocytes	
	Noble, N.A.; Cabalum, T.C.; Nathanielsz, P.W.; Tanaka, K.R.	161
	Changes in the Cellular Environment of Differentiating Type II Pneumocytes. Quantitative Study in the Perinatal Rat Lung	
	Marin, L.; Dameron, F.; Relier, J.P.	172
	Effect of Acute Perinatal Asphyxia on Development of the Lung and Brain in the Rat	
	Zhukova, T.P.; Hallman, M.	183
	Exposure of Rats to Lead Nitrate in Utero or Postpartum, Effects on Morphology and Behavior	
	Minsker, D.H.; Moskalski, N.; Peter, C.P.; Robertson, R.T.; Bokelman, D.L.	193
	Blood Glucose of Mother and Fetus during Late Pregnancy of Rats with a Glycogen Storage Disorder	
	Watts, C.; Gain, K.; Malthus, R.	204
 No. 5-6	 Accurate Measurement of Cerebral Metabolism in the Conscious, Unrestrained Neonatal Piglet. I. Blood Flow	
	Wootton, R.; Flecknell, P.A.; John, M.	209
	Accurate Measurement of Cerebral Metabolism in the Conscious, Unrestrained Neonatal Piglet. II. Glucose and Oxygen Utilization	
	Flecknell, P.A.; Wootton, R.; John, M.	221
	Development of Enzymes of Adenine Nucleotide Metabolism in Rat Brain and Liver	
	Andrés, A.; Machado, A.	227
	Onset of a Feedback Inhibition by Testosterone in Male Rat Fetuses	
	Naessany, S.; Picon, R.	234
	Interrelationship of Insulin and Somatomedin Activity in Fetal Rats	
	Heinze, E.; Nguyen Thi, C.; Vetter, U.; Fussgänger, R.D.	240

Effects of Thyroxine on the Transmission of Immunoglobulin across the Small Intestine of Young Rats	
Jones, R.E.	248
Effects of Fat-Free Diet on Fetal and Maternal Glucose-6-Phosphate Dehydrogenase and the Timing of Parturition in the Mouse	
Dresser, B.L.; Russell, P.T.; Ludwick, T.M.	251
Age-Related Difference in Cerebral Perfusion Pressure Response to Acute Hypoxia in Neonatal Puppies	
Raju, T.N.K.; Bhat, R.; Vidyasagar, D.	258
Role of Milk-Borne Factors in Weaning and Intestinal Development	
Henning, S.J.	268
Proteins, Vitamin A, Carotene, Folicin, Ferritin and Zinc in Navajo Maternal and Cord Blood	
Butte, N.F.; Calloway, D.H.	271
Evaluation of Renal Function in Neonatal Rats	
Kavlock, R.J.; Gray, J.A.	279
Pulmonary Excretion Rates of Carbon Monoxide Using a Modified Technique: Differences between Premature and Full-Term Infants	
Cohen, R.S.; Ostrander, C.R.; Cowan, B.E.; Stevens, G.B.; Hopper, A.O.; Stevenson, D.K.	289
Relationship of Plasma Total Bilirubin, Apparent Unbound Bilirubin and Total Albumin with Cerebellar Glycogen and Abnormal Purkinje Cells in the Gunn Rat	
Karp, W.B.; Moore, P.J.; Subramanyam, S.B.; Brown, D.B.	294
Author Index	305
Subject Index	306

S. Karger · Medical and Scientific Publishers · Basel · München · Paris · London · New York · Tokyo · Sydney

Drug Dosage

The authors and the publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new and/or infrequently employed drug.

All rights reserved.

No part of this publication may be translated into other languages, reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, microcopying, or by any information storage and retrieval system, without permission in writing from the publisher.

S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland)
Printed in Switzerland by
Thür AG Offsetdruck, Pratteln